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WHAT IS CLAIMED IS:

1. An ophthalmic lens formed from a copoly(carbosilane and siloxane) elastomer comprising:

a copolymer having carbosilane repeat units and siloxane repeat units.

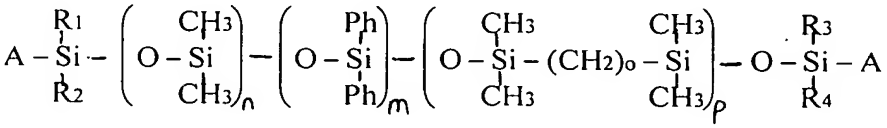
2. The ophthalmic lens of claim 1, wherein the siloxane repeat units are each independently selected from the group consisting of dimethylsiloxane and diphenylsiloxane.

3. The ophthalmic lens of claim 1, wherein the carbosilane repeat units each have a carbon chain with 2 to 12 carbon atoms.

4. The ophthalmic lens of claim 1, wherein the copolymer further comprises terminal alkynyl groups.

5. The ophthalmic lens of claim 4, wherein the terminal alkenyl group is selected from the group consisting of vinyl, allyl, vinylphenyl, allylphenyl, vinylbenzyl and allylbenzyl.

6. The ophthalmic lens of claim 1, wherein the copolymer has the structure:



wherein

A is an alkynyl;

R_1, R_2, R_3, and R_4 are each a hydrocarbon group;

Ph is a phenyl;

n is an integer from 10 to 500;

m is an integer from 5 to 100;

o is an integer from 2 to 12; and

p is an integer from 2 to 50.

7. The ophthalmic lens of claim 1, wherein the elastomer further comprises a platinum catalyst.

8. The ophthalmic lens of claim 1, wherein the elastomer further comprises a crosslinking agent.

9. The ophthalmic lens of claim 8, wherein the crosslinking agent is a hydrodimethyl-terminated silicone.

10. The ophthalmic lens of claim 1, wherein the elastomer further comprises a filler that is hexamethyldisilozane-treated silica and silicone resin material.

11. The ophthalmic lens of claim 1, wherein the elastomer further comprises a UV absorbing compound selected from the group consisting of allyl or methallyl functionalized benzotriazoles or benzophenones.

12. The ophthalmic lens of claim 1, wherein the elastomer has a refractive index of at least about 1.43.

13. The ophthalmic lens of claim 1, wherein the ophthalmic lens is an intraocular lens.

14. An ophthalmic lens formed from a copoly(carbosilane and siloxane) elastomer comprising:

a copolymer having carbosilane repeat units and siloxane repeat units, the carbosilane repeat units each having a carbon chain with 2 to 12 carbon atoms and the

siloxane repeat units each being independently selected from the group consisting of dimethylsiloxane and diphenylsiloxane;

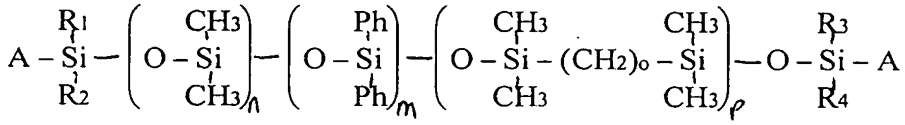
a platinum catalyst;

a crosslinking agent that is a hydrodimethyl-terminated silicone;

a filler that is hexamethyldisilozane-treated silica and silicone resin material; and

a UV absorbing compound selected from the group consisting of allyl or methallyl functionalized benzotriazoles or benzophenones.

15. The ophthalmic lens of claim 14, wherein the copolymer has the structure:



wherein

A is an alkynyl;

R_1, R_2, R_3, and R_4 are each a hydrocarbon group;

Ph is a phenyl;

n is an integer from 10 to 500;

m is an integer from 5 to 100;

o is an integer from 2 to 12; and

p is an integer from 2 to 50.

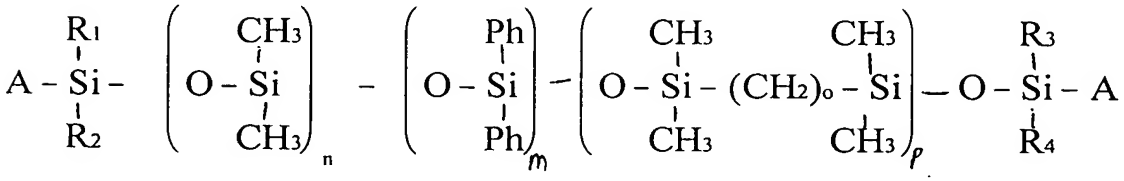
16. The ophthalmic lens of claim 14, wherein the elastomer has a refractive index of at least about 1.43.

17. The ophthalmic lens of claim 14, wherein the ophthalmic lens is an intraocular lens.

18. A copoly(carbosilane and siloxane) elastomer having a high refractive index and optical clarity comprising:

a copolymer having carbosilane repeat units and siloxane repeat units, the carbosilane repeat units each having a carbon chain with 2 to 12 carbon atoms and the siloxane repeat units each being independently selected from the group consisting of dimethylsiloxane and diphenylsiloxane.

19. The ophthalmic lens of claim 1, wherein the copolymer has the structure:



wherein

A is an alkynyl;

R_1, R_2, R_3, and R_4 are each a hydrocarbon group;

Ph is a phenyl;

n is an integer from 10 to 500;

m is an integer from 5 to 100;

o is an integer from 2 to 12; and

p is an integer from 2 to 50.

20. The elastomer of claim 18 further comprising a platinum catalyst.

21. The elastomer of claim 18 further comprising a crosslinking agent.

22. The elastomer of claim 21, wherein the crosslinking agent is a hydrodimethyl-terminated silicone.

23. The elastomer of claim 18 further comprising a filler that is hexamethyldisilazane-treated silica and silicone resin material.

24. The elastomer lens of claim 18 further comprising a UV absorbing compound selected from the group consisting of allyl or methallyl functionalized benzotriazoles or benzophenones.

25. The elastomer of claim 18, wherein the elastomer has a refractive index of at least about 1.43.